

Message

From: Devore - CDPHE, Lisa [lisa.devore@state.co.us]
Sent: 2/10/2016 11:58:03 PM
To: Clark, Adam [Clark.Adam@epa.gov]
CC: Payton, Richard [Payton.Richard@epa.gov]; Gordon Pierce - CDPHE [gordon.pierce@state.co.us]
Subject: Cherokee ambient monitoring for DRR
Attachments: Cherokee_SO2 sites.jpg; SO2 summary-Denver metro.xlsx; 2013AnnualDataReport.pdf

Adam and Richard,

With regard to the SO2 Data Requirements Rule and the Cherokee Power Plant, APCD submits the information below:

Consider that there are two SO2 monitoring sites in the vicinity of Cherokee, with other sites that could provide more perspective if needed:

Welby - 2.2 mi to NNE (current SO2 monitoring)

La Casa - 2.9 mi to SW (current SO2 monitoring)

CAMP - 4.1 mi to SSW (current SO2 monitoring)

South Adams - 2.9 mi to ESE (old SO2 monitoring from 2001-2004)

See attached for a map of the sites, a summary of the monitoring data, and the 2013 Colorado Annual Data Report, which contains the windroses for Welby, La Casa, and Commerce City (a PM monitor) on pages 53-54.

For the significant concentration gradient, the tallest stack at Cherokee is 400 ft, so using the general guideline, that would mean a maximum ground level concentration approximately 3/4 mile away. However, in examining the area around the Cherokee power plant, it is not initially apparent where a monitor could be placed, if at all, not to mention the contributions from the nearby sources that are already seen at the other monitors. Since the current 3 monitors all show significant influences from the Cherokee shutdowns/conversion, we feel that this information is a good preliminary demonstration (along with the fact that Cherokee will finish converting at the end of 2017) that the area is in compliance with the 2010 1-hr SO2 NAAQS. Please review and give us feedback at your earliest convenience. Let me know if you have any questions or would like additional information.

Thank you,
Lisa

Lisa Devore, M.S./P.E.
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